

### United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

# NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

02/11/2004

McNair Law Firm, P.A. P.O. Box 10827 Greenville, SC 29603-0827

EXAMINER				
ниүхн,	LOUIS K			
ART UNIT	PAPER NUMBER			

3721 DATE MAILED: 02/11/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/068,601	02/05/2002	Thomas Patterson Hartness	HIE10C1	1122

STITLE OF INVENTION: CONTINUOUS CIRCULAR MOTION CASE PACKING AND DEPACKING APPARATUS AND METHOD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$665	\$300	\$965	05/11/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- Applicant claims SMALL ENTITY status.
   See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.
- IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

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Mail Stop ISSUE FEE **Commissioner for Patents** P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u>

(703) 746-4000

appropriate All further co	rrespondence including the libelow or directed otherwise	Patent advance orders a	nd notification	of maintenance fees v	will be mailed to the current; and/or (b) indicating a separate	correspondence address as
CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)  7590 02/11/2004			Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
McNair Law Firm P.O. Box 10827 Greenville, SC 296	m, P.A.			Ce I hereby certify that the States Postal Service addressed to the Mai	rtificate of Mailing or Transhis Fee(s) Transmittal is bein with sufficient postage for fir il Stop ISSUE FEE address PTO, on the date indicated bei	ig deposited with the United rst class mail in an envelope above, or being facsimile
					•	(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE	FIRST	NAMED INVE	NTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/068,601	02/05/2002	Thoma	as Patterson Ha	rtness	HIE10C1	1122
TITLE OF INVENTION: C	CONTINUOUS CIRCULAR				_	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	P	UBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$665		\$300	\$965 _	05/11/2004
EXAM	MINER	ART UNIT	С	LASS-SUBCLASS	]	
HUYNH,	LOUIS K	3721		053-475000		
CFR 1.363).  Change of correspond Address form PTO/SB/1  "Fee Address" indicat PTO/SB/47; Rev 03-02 Number is required.  3. ASSIGNEE NAME ANI  PLEASE NOTE: Unless	ion (or "Fee Address" Indicator more recent) attached. Use D RESIDENCE DATA TO B an assignee is identified bed to the USPTO or is being seed to the USPTO or	Correspondence age firr age atto wil  E PRINTED ON THE P. low, no assignee data wis submitted under separate	nes of up to ents OR, altern n (having as a ent) and the na orneys or agen I be printed.  ATENT (print II appear on th cover. Comple	e patent. Inclusion of a	of a single attorney or 2 tered patent d, no name 3 ssignee data is only appropri T a substitute for filing an ass	ate when an assignment has
4a. The following fee(s) are  Issue Fee  Publication Fee  Advance Order - # of	Copies	4b. Payn	nent of Fee(s): check in the an yment by credi the Director is b sit Account No.	nount of the fee(s) is ent t card. Form PTO-2038 hereby authorized by comber		credit any overpayment, to copy of this form).
	ested to apply the issue ree at	nd rubiication ree (ii any	y) or to re-appr	y any previousty paru i	ssue lee to the application luc	antified above.
(Authorized Signature)	*	(Date)			-	
other than the applicant;	d Publication Fee (if requir a registered attorney or ag- cords of the United States Pa	ent; or the assignee or	other party in			
estimated to take 12 minu  completed application for case. Any comments on suggestions for reducing Patent and Trademark 22313-1450. DO NOT S SEND TO: Commissioner Under the Paperwork Re	ation is required by 37 CFR by the public which is to fi y is governed by 35 U.S.C. I tes to complete, including gone to the USPTO. Time with the amount of time you this burden, should be sent Office, U.S. Department SEND FEES OR COMPLE for Patents, Alexandria, Virgeduction Act of 1995, no. 1	athering, preparing, and a li vary depending upon require to complete this to the Chief Information of Commerce, Alexand TED FORMS TO THIS ginia 22313-1450.  Dersons are required to	submitting the the individual of form and/or Officer, U.S. dria, Virginia S ADDRESS.			
collection of information t	ınless it displays a valid OM	B control number.	-			



# United States Patent and Trademark Office

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/068,601	02/05/2002	Thomas Patterson Hartness	HIE10C1 1122		
7590 02/11/2004		EXAMINER			
McNair Law Firm	n, P.A.		HUYNH,	LOUIS K	
P.O. Box 10827 Greenville, SC 296	603-0827		ART UNIT	PAPER NUMBER	
0.00			3721		
			DATE MAILED: 02/11/200	1	

### Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 312 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 312 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)
	10/068,601	HARTNESS ET AL.
Notice of Allowability	Examiner	Art Unit
	Louis K. Huynh	3721
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included not will be mailed in due course. THIS
1. $\boxtimes$ This communication is responsive to <u>the communication fi</u>	led Octorber 31, 2003.	
2. The allowed claim(s) is/are 119-145.		
3. $\boxtimes$ The drawings filed on <u>01 May 2002</u> are accepted by the E	xaminer.	
<ul> <li>4. Acknowledgment is made of a claim for foreign priority una)</li> <li>All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	e been received. e been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers		948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		,
(b) including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or in the C	Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	Patent Application (PTO-152) (PTO-413),
<ul> <li>3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 9/8/03</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit</li> </ul>	_	te ment/Comment ent of Reasons for Allowance
of Biological Material	9. 🗍 Other	

Application/Control Number: 10/068,601

Art Unit: 3721

### **EXAMINER'S AMENDMENT**

- 1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Cort Flint on February 06, 2004.
- 3. The application has been amended as follows:

*In the specification:* 

The priority statement has been replaced with:

--This is a CON of a copending Application Serial No. 09/418,619, filed 10/15/1999, which is a CIP of Application Serial No. 09/301,394, filed 04/28/1999, now U.S. Pat. No. 6,571,532, which is a CIP of Application Serial No. 09/137,327, filed 08/20 1998, now abandoned, which is a CON of Application Serial No. 08/736,376, filed 10/24/1996, now U.S. Pat. No. 5,797,249, which is a CIP of Application Serial No. 08/338,026, filed 11/10/1994, now U.S. Pat. No. 5,588,282, and the above applications and patent disclosures are incorporated herein by reference.--

In Claim 119:

"a motion converter operatively connected between said pickup heads and grid heads and said rotating turret" (lines 23-24) has been changed to: --a motion converter including supports carried by said turret for supporting said pickup and grid heads

Application/Control Number: 10/068,601

Art Unit: 3721

and connector mechanisms operatively connected between said pickup heads and grid heads and said rotating turret, said motion converter--.

In Claim 122:

"motion converter" has been changed to: --supports--.

In Claim 132:

"turret" (line 13) has been changed to: --axis--;

"a pickup-head motion converter associated with said turret and operatively connected to said pickup heads" (lines 17-18) has been changed to: --a pickup-head motion converter including supports carried by said turret for supporting said pickup heads and articulating connector mechanisms associated with said turret and operatively connected to said pickup heads--.

In Claim 134:

"said pickup-head motion converter includes articulating connector mechanisms swiveling" (lines 1-2) has been changed to: --said articulating connector mechanisms swivel--.

In Claim 135:

"motion converter" has been changed to: --supports--.

In Claim 140:

"by actuating said linkage mechanism through the pickup station" (line 4) has been changed to: --through the pickup station by actuating said linkage mechanism--.

Application/Control Number: 10/068,601 Page 4

Art Unit: 3721

4. Reason for the Examiner's Amendment: the examiner proposed, and agreed to by applicant's attorney, to amend Claims 119 and 132 to include additional structure so that the functional language can be given full patentable weight, i.e. the supports carried by the turret support the swiveling motion of the pickup heads about the secondary swivel axis and the connector mechanisms transmit the swiveling motion of the pickup heads through the pickup station.

- 5. The following is an examiner's statement of reasons for allowance: the prior art of record fails to disclose and/or teach a continuous circular motion apparatus for packing articles into cases including in combination a motion converter that causes the pickup heads to swivel about a swivel axis and depart from the main radial path to move along a straight-line path through the pickup station and then return and maintain the pickup heads along the main radial path without swiveling after passing through the pickup station.
- 6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Louis K. Huynh whose telephone number is (703) 306-5694. The examiner can normally be reached on M-F from 9:30AM to 5:00PM.

Application/Control Number: 10/068,601 Page 5

Art Unit: 3721

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rinaldi I. Rada can be reached on (703) 308-2187. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LH February 06, 2004 JOHN SIPOS ORIMARY EXAMINER